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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/714,901	11/16/2000	Shinnosuke Fukuda	225-009960-US(PAR)	5058	
;	7590 09/11/2003				
Clarence A. Green PERMAN & GREEN, LLP 425 Post Road			EXAMINER		
			MONBLEAU, DAVIENNE N		
Fairfield, CT 06430			ART UNIT	PAPER NUMBER	
			2828	2828	
•			DATE MAIL ED: 00/11/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Summary			Application No.	Applicant(s)			
Examiner							
Davienne Monbleau 2828 Period for Reply A SHORTENED STATUTORY PERIOD FOR REDLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MILLING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REDLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of THIS COMMUNICATION. If the Mailland DATE of THIS COMMUNICATION. If the period for reply specified above is lase than thing (30) sery, a reply within the detadery minimum of thing (30) sery, a reply within the series of the control of the period for reply specified above is lase than thing (30) sery, a reply within the detadery minimum of the period for reply specified above is lase than thing (30) sery, a reply within the detadery minimum of the period of the control of the control of the period for reply specified above is lase than thing (30) sery, a reply within the detadery within the series of second and the control of the period of the period of the period of the control of the period of		Office Action Summary					
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29) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 13-22 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 5) Claim(s) is/are allowed. 6) Claim(s) is/are ellowed. 7) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 9 PAUL IP 7 PUPERVISORY PATENT EXAMINER 7 TECHNOLOGY CENTER 2800 Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 16 November 2000 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) opproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received in Application No. 3 Copies of the certified copies of the priority documents have been received in Application No. 3 Copies of the certified copies of the priority documents have been received in Application No. 3 Copies of the certified copies of the priority documents have been received in Application No. 3 Copies of the certified copies of the priority documents have been received in Application No. 3 Copies of the certified copies of the priority documents have been received in Application No. 4 Copies of the certified copies of the priority documents have been received in Application No. 4 Copies of the certified copies of the priority documents have been received in Copies of the Copie	THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
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Art Unit: 2828

DETAILED ACTION

Claim Objections

Claim 13 line 6: "hold" should be changed to - hole - . . .

Claim 13 lines 6-7: "with outside the case" should be changed to - with the outside of the case -.

Claim 18 lines 9-10: "with outside the case" should be changed to – with the outside of the case – .

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 13-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's cited prior art Tanaka et al. (U.S. Patent No. 5,233,580) in view of Nakanishi et al. (U.S. Patent No. 5,748,658) and Kitamura et al. (U.S. Patent No. 5,590,144). Regarding Claims 13 and 18,

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Tanaka et al. teach in Figure 2 a semiconductor module comprising a semiconductor laser element (5), a holding member (3) having a thermal conductivity and a base member (9) having a thermal conductivity. Tanaka et al. then teach in Figure 4 that said base member (9) may be attached to a mounting member (20) and further teach in column 5 lines 45-56 that said mounting member may be an optical pick up casing. Tanaka et al. do not teach a thermal adhesive. Nakanishi et al. teach in column 10 lines 30-35 using a thermal adhesive to mount optical elements. It would have been obvious to one of ordinary skill in the art at the time of the invention to use a thermal adhesive in Tanaka et al., as taught by Nakanishi et al., to remove heat from the semiconductor laser chip and maintaining it in a state close to room temperature so that reliability may be greatly enhanced. (See Nakanishi et al. column 10 lines 33-36). Additionally, although Nakanishi et al. do not specifically teach using the conductive adhesive between the holding member (3) and the base member (9), using the adhesive between these elements serves the same function as that taught by Nakanishi et al. Tanaka et al. do not teach a hole in said case (20). Kitamura et al. teach in Figure 22 a semiconductor laser assembly comprising a case (20) with a base member (20) fixedly connected in the hole by bolts (32), wherein a side of the base (20 is exposed to the outside of the case. It would have been obvious to one of ordinary skill in the art at the time of the invention to use a case with a hole in Tanaka et al., as taught by Kitamura et al., to increase the amount of surface area on said base to allow for efficient heat removal.

Regarding Claims 14 and 19, Tanaka et al. do not teach the thermal conductivity of said case (20), but teach in column 3 lines 63-64 that said base member (9) has a high heat

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conductivity. Therefore, it is implied that said thermal conductivity of the base member (9) is great than that of the case (20).

Regarding Claims 15 and 20, Kitamura et al. teach in Figure 22 that said hole is opposite to the holding member (23).

Regarding Claims 16 and 21, it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. St. Regis Paper Co. v. Bemis Co., 193 USPQ 8.

Regarding Claims 17 and 22, Tanaka et al. teach in column 5 lines 45-56 that said mounting member may be an optical pick up casing and in column 6 lines 60-66 accurately positioning said laser diode in said case with respect to optical components.

Response to Arguments

Applicant's arguments with respect to claims 13-22 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: US 4,567,598.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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final action.

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Davienne Monbleau whose telephone number is 703-306-5803. The examiner can normally be reached on Mon-Fri 8:00 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on 703-308-3098. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

DNM

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